

Test Our Java Skills

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What is the output of following program?

```
public class BitPuzzel {  
    public static void main(String[] args) {  
        int mask = 0x000F; int value = 0x2222;  
        System.out.println(value & mask);  
    }  
}
```

Ans: 2

What is the output of following program?

```
class A {  
    int add(int i, int j) {  
        return i + j;  
    }  
}  
  
public class B extends A {  
    public static void main(String[] args) {  
        short s = 9;  
        System.out.println(add(s, 6));  
    }  
}
```

Ans: Compilation Fails due to error at line 9, non-**static** method referenced from a **static** context

Which is the right answer to the following?

```
public interface Syrupable {  
    void getSugary();  
}  
  
abstract class Pancake implements Syrupable { }  
  
class BuleBerryPancake implements Pancake {  
    public void getSugary() { ; }  
}  
  
class SourdoughBuleBerryPancake extends BuleBerryPancake {  
    void getSugary(int s) { ; }  
}
```

Answer: Compilation fails due to an error on line 6

What is the output of following program?

```
try {  
    Float f = new Float("3.0");  
    int x = f.intValue(); System.out.println("x : "+x);  
    byte b = f.byteValue(); System.out.println("b : "+b);  
    double d = f.doubleValue(); System.out.println("d : "+d);  
    System.out.println(x + b + d);  
} catch (NumberFormatException e) /* Line 9 */ {  
    System.out.println("bad number"); /* Line 11 */  
}
```

Answer: 9.0

Write a Java Program for the below given problem statement

Problem: Given the input strings validate if they have balanced parentheses and curly braces.

```
import java.util.Scanner;
class Parser {
    boolean isBalanced(String s) {
        while (s.length() != (s = s.replaceAll("\\(\\)|\\{\\}", "")).length());
        return s.isEmpty();
    }
}
class Solution {
    public static void main(String[] args) {
        Parser parser = new Parser();
        Scanner in = new Scanner(System.in);
        while (in.hasNext()) {
            System.out.println(parser.isBalanced(in.next()));
        }
        in.close();
    }
}
```

Implement a Java class for the below:

```
abstract class Calculator { abstract int add(int a, int b); }
```

```
class Adder extends Calculator{  
    int add(int a, int b) {  
        return a+b;  
    }  
}
```

```
public class Solution {  
    public static void main(String[] args) {  
        int a, b;  
        try (Scanner scan = new Scanner(System.in)) {  
            a = scan.nextInt();  
            b = scan.nextInt();  
        }  
        Calculator adderObject = new Adder();  
        System.out.println("The sum is: " + adderObject.add(a, b));  
    }  
}
```

Given the following code, what will be the output?

```
public class MyClass {  
    public static void main(String[] args) {  
        int x = 10;  
        int y = 20;  
        System.out.println(x + y + " " + x++ + " " + y--);  
    }  
}
```

Explanation:

- * The expression `x + y` is evaluated first, resulting in 30.
- * Then, `x++` is evaluated, which means the value of `x` is used first (10) and then incremented to 11.
- * Finally, `y--` is evaluated, which means the value of `y` is used first (20) and then decremented to 19.

Referenes

https://github.com/deepdalsania/HackerRank_Solutions

[GitHub - MeAtharva/Java-Hackerrank-Certifications](https://github.com/MeAtharva/Java-Hackerrank-Certifications)

<https://segmentfault.com/t/java>

[https://github.com/sunilshinde159/fundamentals/blob/master/QUESTIONS_AND_ANSWERS_02.m](https://github.com/sunilshinde159/fundamentals/blob/master/QUESTIONS_AND_ANSWERS_02.md)
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